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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-07-28-31** **Date: 05-06-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	04-06-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-07-28-31**	**Date: 14-08-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.	
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).	
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32	
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-08-23	
Sample Type /Size	:	Precast Cover Slab - 100mm thickness	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	10/08/2023	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	103.1	21.9	20.3	25.4
2	Cover Slab-2	77.48	100.52	1.124	4714	102.6	21.8	20.2	25.3
3	Cover Slab-3	77.52	100.51	1.128	4719	103.9	22.0	20.5	25.6

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-07-28-31** **Date: 17-08-23**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-23

Sample Type /Size : Precast Cover Slab -230mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 13/08/2023

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.49	230.52	2.839	4715	103.4	21.9	20.4	25.5
2	Cover Slab-2	77.51	230.48	2.846	4718	102.4	21.7	20.2	25.2
3	Cover Slab-3	77.48	230.50	2.812	4714	102.6	21.8	20.2	25.3

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 21/06/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	14/06/2023	21/06/2023	149.47 X 149.12 X 149.76	22289	8.838	419.1	18.8	18.5
2	Drain Bottom Raft Concrete	M20	14/06/2023	21/06/2023	149.95 X 150.52 X 151.64	22570	8.965	420.6	18.6	
3	Drain Bottom Raft Concrete	M20	14/06/2023	21/06/2023	150.01 X 151.20 X 151.13	22682	8.735	409.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 12/07/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	14/06/2023	12/07/2023	149.19 X 149.56 X 149.41	22314	8.688	529.6	23.7	23.0
2	Drain Bottom Raft Concrete	M20	14/06/2023	12/07/2023	149.92 X 150.01 X 151.05	22489	8.356	495.6	22.0	
3	Drain Bottom Raft Concrete	M20	14/06/2023	12/07/2023	151.36 X 151.74 X 151.27	22967	8.635	531.2	23.1	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-07-28-31** **Date: 08-06-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-06-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-07-28-31** **Date: 08-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.43**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.18**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-07-28-31** **Date: 06-06-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-07-28-31** **Date: 06-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-07-28-31** **Date: 06-06-23**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-06-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	56	88	8.8	91.2	60-95	75-100	85-100	95-100
4	1.18 mm	237	325	32.5	67.5	30-70	55-90	75-100	90-100
5	600 micron	207	532	53.2	46.8	15-34	35-59	60-79	80-100
6	300 micron	208	740	74.0	26.0	5-20	8-30	12-40	15-50
7	150 micron	180	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-07-28-31** **Date: 06-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 26/06/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/06/2023	25/06/2023	150.41 X 150.22 X 149.53	22594	8.361	418.1	18.5	18.4
2	Drain Side Wall Concrete	M20	18/06/2023	25/06/2023	150.08 X 150.17 X 149.84	22537	8.611	411.5	18.3	
3	Drain Side Wall Concrete	M20	18/06/2023	25/06/2023	149.38 X 149.37 X 150.25	22313	8.314	410.3	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 17/07/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/06/2023	16/07/2023	151.24 X 149.39 X 151.38	22593	8.620	527.6	23.4	23.4
2	Drain Side Wall Concrete	M20	18/06/2023	16/07/2023	150.70 X 150.25 X 149.50	22644	8.821	517.7	22.9	
3	Drain Side Wall Concrete	M20	18/06/2023	16/07/2023	151.02 X 149.79 X 151.81	22622	8.562	539.9	23.9	

* The results obtained are satisfactory as per standard requirements.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-28-31** **Date: 26/06/2023**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/06/2023

Sl.	Identification	Grade	Date of	Date of					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 17/07/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : *IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5*

Date of test : *17/07/2023*

Sl. No.	Identification Mark	Grade of	Date of Casting	Date of Testing	Dimension of the	Cross	Weight of	Failure	Compressive	Average
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	19/06/2023	17/07/2023	150.36 X 149.79 X 149.62	22522	8.738	534.4	23.7	23.2
2	Drain Side Wall Concrete	M20	19/06/2023	17/07/2023	150.09 X 149.36 X 150.94	22416	8.755	502.7	22.4	
3	Drain Side Wall Concrete	M20	19/06/2023	17/07/2023	149.03 X 150.53 X 151.98	22433	8.221	527.7	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 04/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/07/2023	04/08/2023	150.24 X 150.73 X 151.54	22646	8.817	420.1	18.5	18.6
2	Drain Side Wall Concrete	M20	28/07/2023	04/08/2023	150.36 X 150.28 X 150.90	22595	8.602	414.4	18.3	
3	Drain Side Wall Concrete	M20	28/07/2023	04/08/2023	150.61 X 149.56 X 151.27	22525	8.306	424.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 25/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/07/2023	25/08/2023	150.10 X 150.02 X 151.44	22517	8.866	532.4	23.6	23.4
2	Drain Side Wall Concrete	M20	28/07/2023	25/08/2023	149.48 X 151.41 X 150.94	22633	8.576	519.3	22.9	
3	Drain Side Wall Concrete	M20	28/07/2023	25/08/2023	149.80 X 150.37 X 151.30	22526	8.840	533.4	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 12/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	05/08/2023	12/08/2023	149.94 X 150.59 X 150.91	22579	8.574	414.6	18.4	18.6
2	Culvert Side Wall Concrete	M20	05/08/2023	12/08/2023	150.77 X 151.72 X 149.90	22875	8.433	424.4	18.6	
3	Culvert Side Wall Concrete	M20	05/08/2023	12/08/2023	151.21 X 151.67 X 151.10	22935	8.116	430.2	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 02/09/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	05/08/2023	02/09/2023	149.55 X 149.40 X 151.19	22343	8.171	527.7	23.6	23.3
2	Culvert Side Wall Concrete	M20	05/08/2023	02/09/2023	151.74 X 151.17 X 149.27	22939	8.823	512.2	22.3	
3	Culvert Side Wall Concrete	M20	05/08/2023	02/09/2023	150.88 X 151.00 X 150.10	22784	8.336	544.2	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 10/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-08-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	03/08/2023	10/08/2023	150.49 X 151.39 X 150.50	22783	8.286	416.4	18.3	18.5
2	Culvert Bottom Raft Concrete	M20	03/08/2023	10/08/2023	149.23 X 149.50 X 151.83	22311	8.518	412.4	18.5	
3	Culvert Bottom Raft Concrete	M20	03/08/2023	10/08/2023	151.89 X 150.62 X 150.27	22879	8.936	432.1	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 31/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-08-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	03/08/2023	31/08/2023	151.24 X 150.12 X 151.71	22704	8.390	539.9	23.8	23.5
2	Culvert Bottom Raft Concrete	M20	03/08/2023	31/08/2023	149.66 X 150.52 X 150.60	22528	8.735	513.9	22.8	
3	Culvert Bottom Raft Concrete	M20	03/08/2023	31/08/2023	150.81 X 150.51 X 150.27	22698	8.269	542.9	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 28/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	150.80 X 149.11 X 149.33	22486	**8.189**	183.7	8.2	8.3
2	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	151.96 X 151.09 X 148.50	22960	**8.246**	178.2	7.8	
3	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	150.87 X 151.92 X 151.38	22920	**8.624**	204.2	8.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-28-31** **Date: 28/08/2023**

Customer : Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.

Address : Kuvempunagara Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/137/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	148.58 X 149.04 X 149.44	22143	**8.258**	184.7	8.3	8.1
2	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	150.50 X 148.07 X 150.05	22283	**8.636**	170.2	7.6	
3	Culvert Ramp Concrete	M10	21/08/2023	28/08/2023	148.58 X 151.72 X 151.23	22542	**8.078**	186.2	8.3	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-07-28-31** **Date: 08-06-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	_
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

****End of Report****

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-07-28-31** **Date: 03-07-23**
Customer	:	Assistant Executive Engineer, Kuvempunagara Sub Division, BBMP, Bangalore.
Address	:	Kuvempunagara Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency	:	Sri. A Kumar Reddy , #44, Kaveri Nagar, A Block, Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/137/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	05-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

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****End of Report****

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